Broflanilide

®

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Cat. No.:	HY-108689				
CAS No.:	1207727-04-5				
Molecular Formula:	C ₂₅ H ₁₄ BrF ₁₁ N ₂ O ₂				
Molecular Weight:	663.28				
Target:	GABA Receptor				
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	2 years		
		-20°C	1 year		

SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	1.5077 mL	7.5383 mL	15.0766 mL		
		5 mM	0.3015 mL	1.5077 mL	3.0153 mL		
	10 mM	0.1508 mL	0.7538 mL	1.5077 mL			
	Please refer to the so	lubility information to select the app	propriate solvent.				
ı Vivo		one by one: 10% DMSO >> 40% PEC g/mL (3.14 mM); Suspended solution) >> 45% saline			
		one by one: 10% DMSO >> 90% corn oil mg/mL (3.14 mM); Clear solution					

BIOLOGICAL ACTIVITY					
DIOLOGICALACIA					
Description	Broflanilide is a potential insecticide and metabolized to Desmethyl-Broflanilide, which is a potent antagonist at the insect resistant-to-dieldrin (RDL) GABA Receptor, and inhibits S. litura RDL GABAR, with an IC ₅₀ value of 1.3 nM ^[1] .				
In Vitro	Broflanilide is an insecticide and metabolized to desmethyl-broflanilide, which is a potent and selective antagonist at the insect resistant-to-dieldrin (RDL) GABA receptor, and inhibits S. litura RDL GABAR, with an IC ₅₀ value of 1.3 nM. Desmethyl-broflanilide shows weak activity against human GABA _A α 1 β 2 γ 2 receptor, the mammalian GABA _A α 1 β 3 γ 2 receptor and human glycine receptor (GlyR) α 1 β with IC ₅₀ s of >3 μ M, and less potently inhibits GlyR α 1-A288G β and GlyR α 1-A288G (IC ₅₀ s, 0.706, 0.149 μ M) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				

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CUSTOMER VALIDATION

• B ENVIRON CONTAM TOX. 2023 Jun 24;111(1):8.

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REFERENCES

[1]. Nakao T, et al. Broflanilide: A meta-diamide insecticide with a novel mode of action. Bioorg Med Chem. 2016 Feb 1;24(3):372-7.

Caution: Product has not been fully validated for medical applications. For research use only.

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